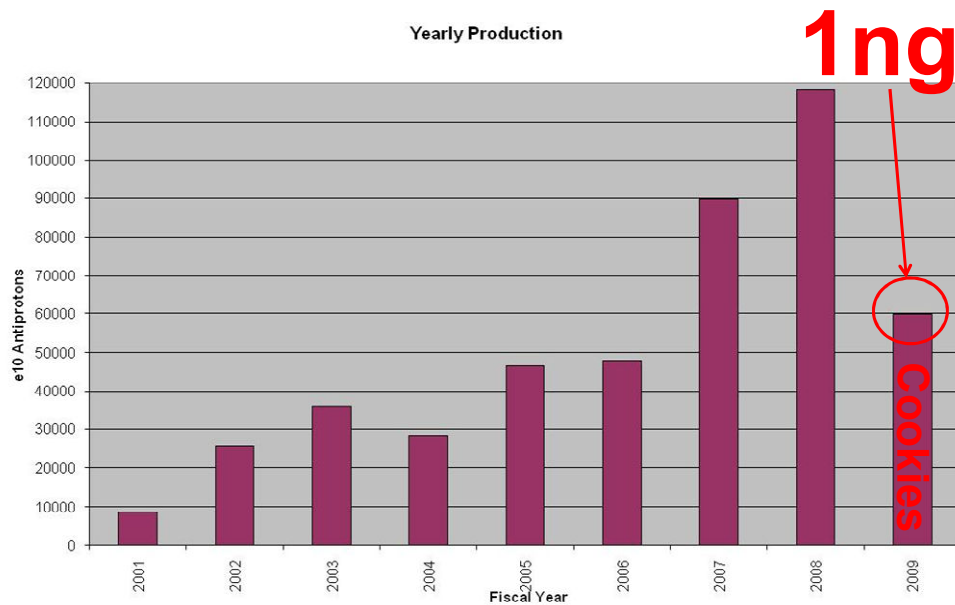


2009-02-26 Pbar Department Meeting

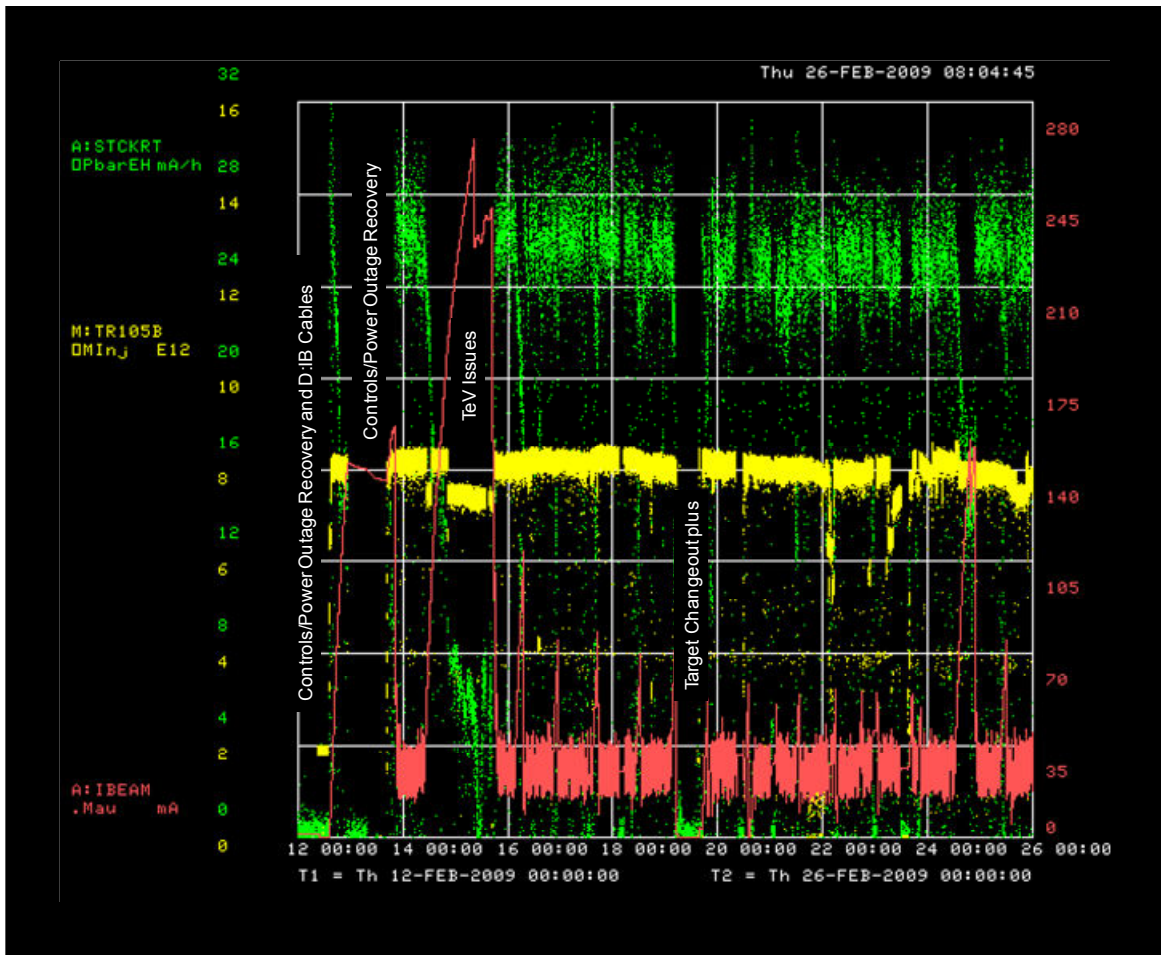
Thursday, February 26, 2009
9:58 AM

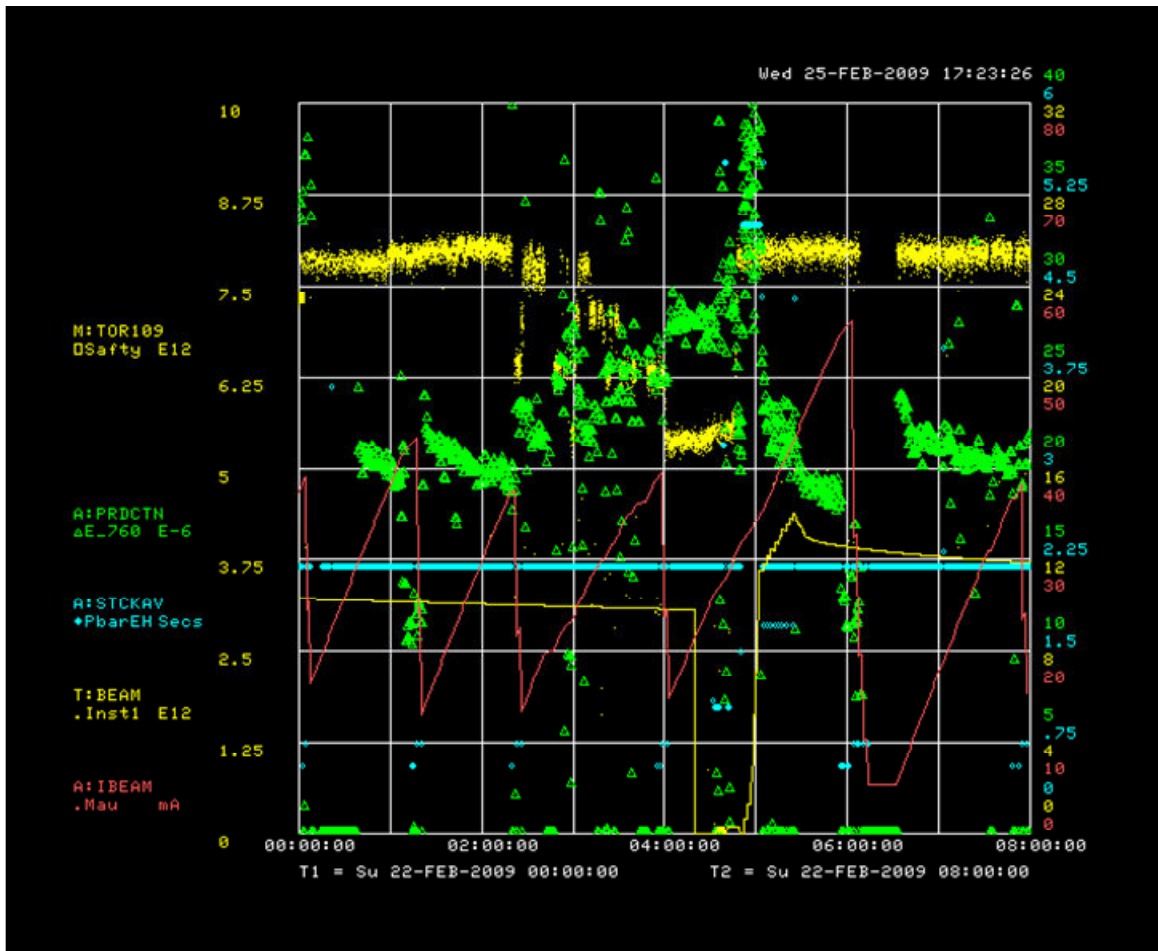
- a
- 1.6726×10^{-24} grams



1mA is 167 ag

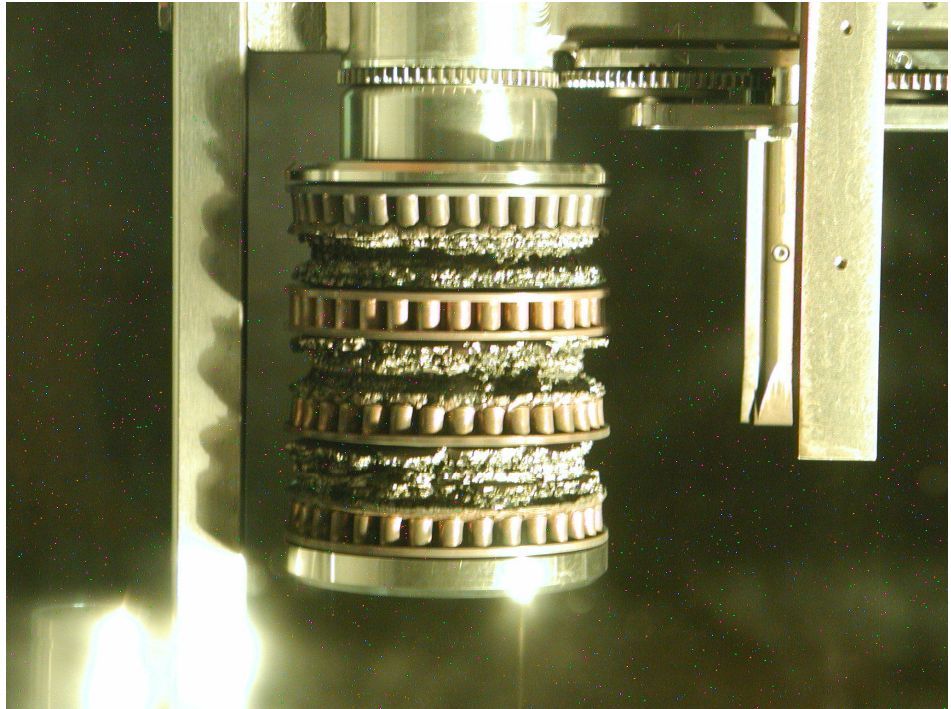
-
- a





-
- Last few weeks
 - Prior to Debuncher
 - I:V714 – still tripping - MADC changed, helped, but still trips when tighten limits.
 - M:Q102 - bad phase imbalance circuit.
 - M:Q108 and M:Q109 “ramps” -
 - Those get bypassed by 8 gev beam
 - Have a different history of ramp cards
 - Also have long cable runs, more resistance, so have a harder time delivering high voltage, ramping fast.
 - Went through a period where thought the spot had shrunk.
 - Wanted to make the ramps like the rest, with hysteresis protocol.
 - Didn't work
 - Went back to not doing ramp on these two quads.
 - Tony checked spot size, it is ok.
 - Target Change out – auto target mover
 - Has berilium cover, solid piece.
 - Auto Target mover, moved the target ~1mm each day. Batch job runs and calculates how much beam on target.
 - We ran from bottom up....

- We ran from bottom up....



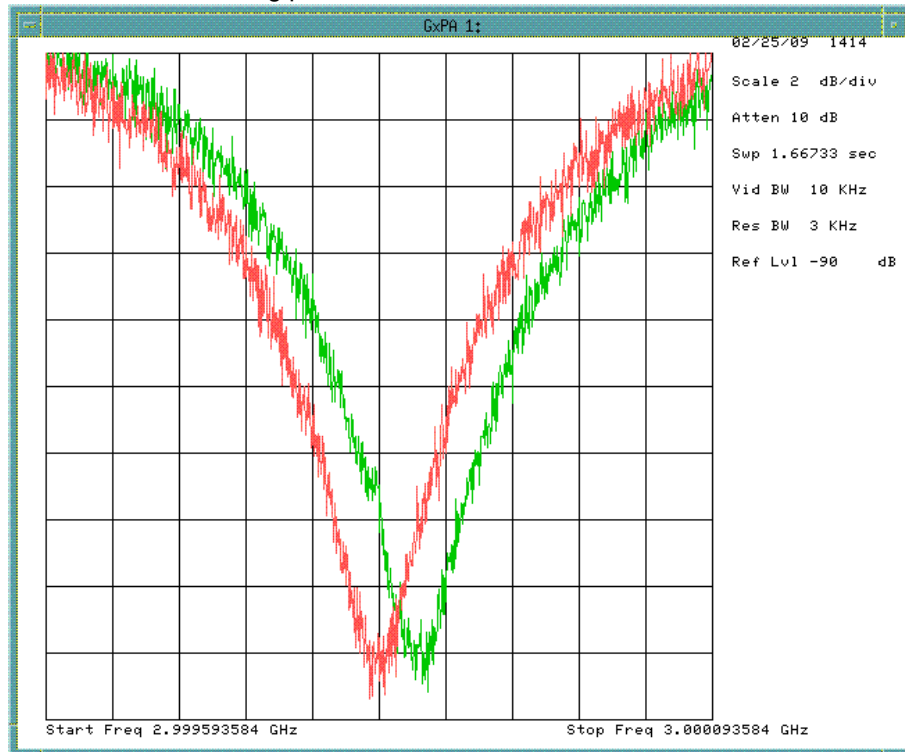
-
- No sputtered material on the lens



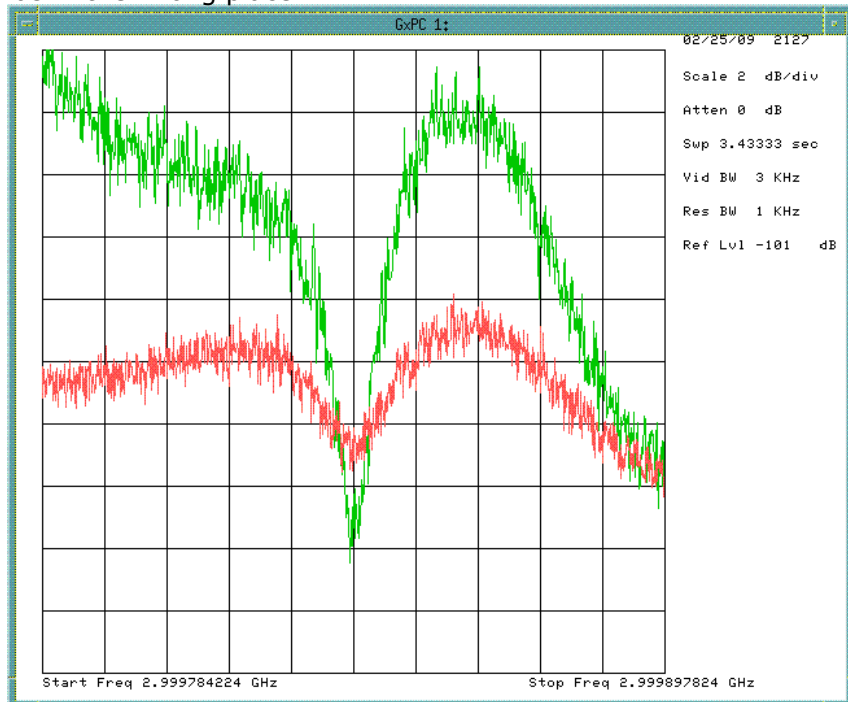
-
- 70 days to get to there, and then turn around.
- IQ13 water leak
- Debuncher
 - D:IB cables from transformer
 - Tune scans
 - DRF1 (remote) tune-up
- D/A
 - Java SEM display
- Accumulator
 - A:IKIK and vacuum
 - A week ago Monday, raised.
 - Quite a few days, and then had a bad weekend.
 - Core Transverse System

Core Transverse System

- ☐ Now have TWTs.
- ☐ Caused some trouble.
- ☐ Tripping when reverse protons, and when gains turned up
- ☐ DVM is bumping the times
- Core location
 - ☐ ST fileter 3 in the wrong place.



- ☐
- ☐ Array was in the wrong place.



- ◆
- ◆ 2-4 GHz Momtneum in green, 4-8GHz in red.
- ◆ As turn power up, notch moves to the left. Will have to modify the tuning procedure...for now, commands disabled in the sequencer.

Transfers

- Acc TBT reverse proton tune-up & BPM system
 - ☐ VMEs were not getting the gain. Patch fix was to put a delay between loads.
- ARF4 curve – Set markers

- In the future we may have an offset for large stacks.
 - I:HVF12
 - Old problem, but gets worse on occasion.
 - Spec'ed nicely for 120GeV operation. At 8 GeV, may be too noisy.
 - Waiting to hear from EE Support.
 - Efficiency
- General
 - PLC Trips
 - PLC03 - 2 trips, watchdog timeout...memory scrambled....radiation?
 - PLC02 - 2 trips,
 - Both are still vulnerable.
 - Java Plots
 - Controls has a JFreeChart replacement, called JDataViewer from CERN.
- Upcoming
 - Replace IB7 (when it fails)
 - Stacktail equalizer tweak
 - Upstairs no beam for 4hrs
 - Braze D:6Q11 water leak
 - Next opportunity with Tech Division
 - A4S12 is also leaking
 - Valeri Proposals
 - Re-introduce equalizers to core transverse systems
 - Steve says before we do that, we should run the gains up and see if that works.
 - Hybrid flips for 4-8GHz Core system
 - 30 minute job. Measure from upstairs with NA.
 - Fix the service elevators
 - 30 and 50 are not working.
 - There is no contract to service those.
 - Have to write a contract and let them in for a shift.
- Long Shutdown
 - Replace IB7 (if it hasn't been done already)
 - Re-install AP2 momentum collimator
 - Need to request jaw modifications
 - Move 4-8GHz kicker tank towards AP50 Pit
 - Bake 2 sectors
 - Ralph asks if appropriate spool pieces have been made yet?
 - Do we move the vacuum valve?
 - New water manifolds for HV100 magnets
 - Not doing HV102 and V105 manifolds for now
 - Test IKIK module in tunnel
 - How??
 - This week may have it under vacuum.
 - Various maintenance tasks
 - Target Station
 - New target SEM
- Shutdown
 - June 15th
 - 10 weeks.